

- Be sure to read this User's Manual before starting the operation of the receiver
- Never open the cover. It is dangerous to touch the inside of the receiver due to possible electric hazard.
- When the receiver is unused for a long time, unplug the power cord from the wall outlet.
- Do not use a damaged power cord that may cause a fire or an electric shock.
- Do not touch a power cord with wet hand. It may cause an electric shock.
- Place the receiver in well ventilated and no-heat environment.
- When connecting cables, the receiver must have been powered off.
- Do not plug in/out CI module, when the receiver is powered on. But you can insert smart card to CI module with powered on.
- Do not stack the exposed firing device, such as candle, on top of the receiver.
- Do not expose the receiver to dripping or splashing and that no objects filled with liquids, such as vase, shall be placed on the apparatus.

How to Use This Manual

This manual provides complete instructions for installing and using this receiver.

The following symbols will serve as follow.



Warning Indicates a warning information.



Tips Indicates any other additional important or helpful information.

MENU Represents a button on the remote controller or the receiver.
(*Bold Character*)

Move to Represents a menu item within a window
(*Italic Character*).

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1.1 Features

<Common Part>

- Easy Graphic MENU Interface
- RS232C Port for Updating Control Software and Additional Service
- Video Connector(RCA, SCART)
- Supports DiSEqC 1.2
- Multi-language Function(Menu, Audio)
- Last Channel Memory
- OSD : Transparency & Blending, 256Colors
- Front Panel Buttons & IR Remote Controller User Interface
- Editing Functions(TV or Radio Channel, Transponder)
- EPG for On Screen Channel Information
- Channels Memory for Multi-satellite(up to 64)
- 3 Operation Modes(Digital TV, Digital Radio, Favorite)
- Connectors(RCA), S/PDIF
- Supports software downloading through satellite

<Digital Part>

- Receives QPSK Satellite Broadcasting RF Signal and Decodes the Digitally Encoded Signal
- Digital Tuner with Loop-through out
- SCPC/MCPC Receivable from C/KU-band Satellite.
- MPEG-2 Main Profile at Main Level
- Teletext Supported Through VBI & OSD
- 3000 Channels Memory

<CI Part>(CI Model Only)

- DVB Common Interface(Viaccess, Nagra Vision, Conax, Irdeto, Crypto works, ASTON)

<SMART CARD>

- SMART CARD Interface (VIACCESS)

1.2 Accessories

- User's Manual
- Remote Control Unit
- Batteries

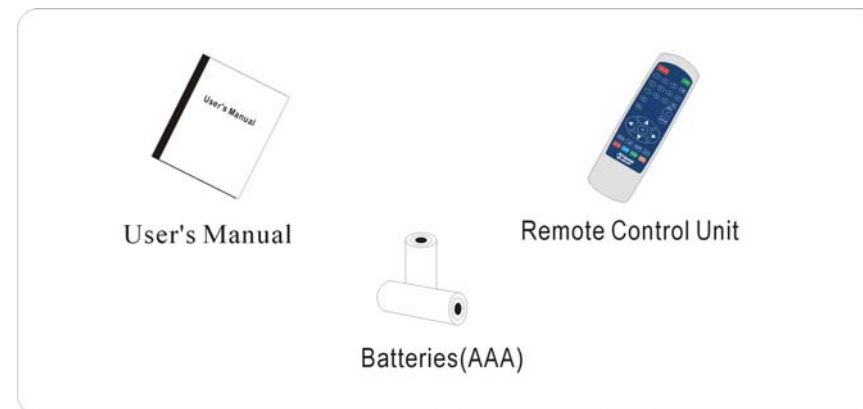


Figure 1. Accessories

**Warning**

Please don't recharge, disassemble, electric short, and mix with used or other battery types

2.1 Front Panel

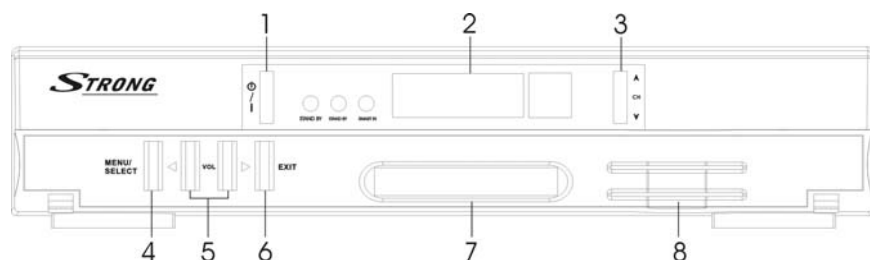


Figure 2. Front Panel

1. Power Button

Turns the receiver On/Off.

2. Display(4-digits 7-segments/3LED)

The 4-digit displays channel information. In STAND BY mode, the 7-segment displays local time.

The red LED is the STAND BY indicator and the one green LED is the CAM in indicator. (CI Model Only), the other green LED is the Card in indicator. (Viaccess)

3. Channel UP/DOWN Button

Moves the cursor up/down in Menu state. Changes the current program to the next/previous program in No-menu state.

4. Menu/Select Button

How the System set-up menu in No-menu state. Activates the highlighted menu item in Menu state.

5. Volume UP/DOWN Button

Increases/decreases the volume levels in No-menu state. Change the setting values in specific Menu item.

6. Exit Button

Exits from the current menu or cancels the current progressing operation if applicable.

7. CI Slot(CI Model Only)

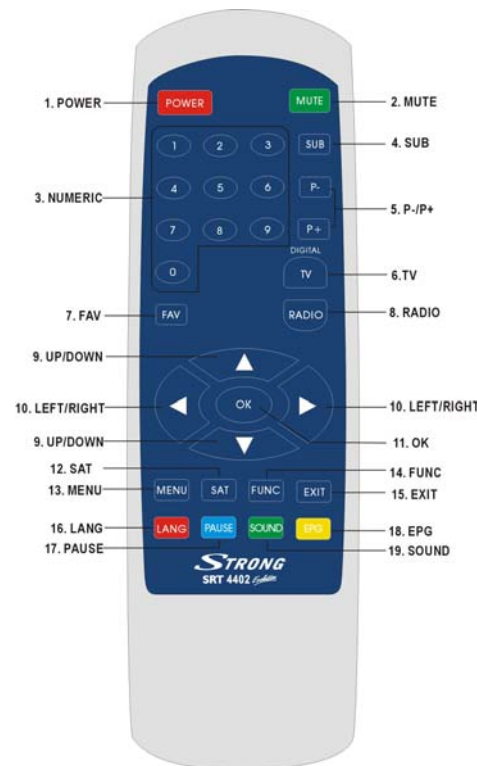
Insert CI module into CI slot for conditional access.

8. SMART CARD SLOT

Insert smart card into smart card slot for conditional access.

2.2 Remote Control Unit

All features of the set-top box can be controlled with the remote

**1. POWER**

Turns the receiver On/Off.

2. MUTE

Mutes audio output of the receiver.

3. NUMERIC KEY(0-9)

Controls the numerical operation and especially changes program directly.

4. SUB

Shows the list of subtitled languages the current channel supports.

5. P+/P-

Page up and down in menu list.

6. TV

Shows the current digital TV program list.

7. FAV(♥)

Shows the current favorite program list.

8. RADIO

Shows the current digital Radio program list.

9. UP/DOWN

Change the current program to the previous/next program in NO-menu state.

Moves the cursor to upward/downward in Menu state.

10. LEFT/RIGHT

Change the setting value in specific Menu item.

11. OK

Activates the highlighted menu item.

Or view the program guide in No menu state.

12. SAT

Shows satellites list of the searched channels, change current satellite.

13. MENU

Shows the menu or sub-menu and cancels the processing function if applicable.

14. FUNC

Used for special functions. Normally used for viewing information or starting scan.

15. EXIT

Exits from the menu or sub-menu and cancels the progressing function if applicable.

16. LANG

Shows the list of the audio language available in the current channel.

17. PAUSE

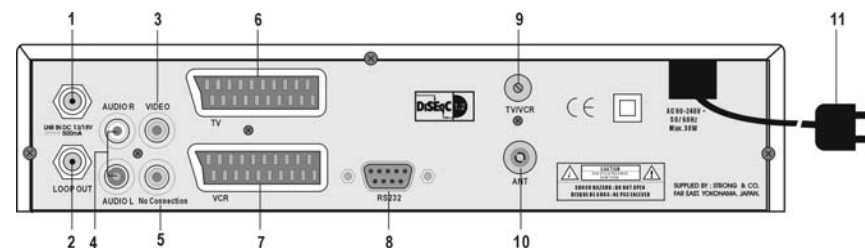
Pause the video/audio output.

18. EPG

View the program guide in No-menu state.

19. SOUND

Select sound mode to stereo or mono.

2.3 Rear Panel**Figure 3. Rear Panel****1. LNB IN**

Connect the digital signal from your LNB of your satellite dish to this connector.

2. LOOP OUT

Gives you the connection possibility to the extra receiver (analogue or digital).

3. VIDEO (Yellow RCA)

This connector has a constant video signal for additional VCR-connections.

4. AUDIO Right (Red RCA) and Left (White RCA)

These connectors give you the possibility to connect the audio signal to an external amplifier, or the audio input of your TV.

5. No Connection**6. TV Scart Connector**

Use this connector to connect your receiver to your TV using a scart cable.

7. VCR Scart Connector

Use this connector to connect your receiver to your video recorder using a scart cable. Your video signal will now be looped through to your TV.

8. RS232 Serial Port

This serial port can be used to connect your PC to your receiver, and enables you to download new versions of software into your receiver.

9. TV/VCR

RF Modulator(male part). If you do not use a scart cable or RCA cable to connect your receiver to your TV, you will have to use this connector to connect the receiver to your TV, using a coax cable.

If you connect your receiver to your TV like this, be sure that you set your TV to the Video channel.

10. ANT

RF Modulator(female part). If you have an additional antenna(cable or terrestrial) as well, and you do not use a scart cable to connect the receiver to the TV, then your additional antenna has to be connected here.

If you use a scart cable to connect the receiver to your TV, the additional antenna can be put directly into your TV.

11. Power Cord

Your receiver requires a current of 90~240V AC(Auto-selectable), 50~60Hz+/-5%.

Make sure to check the power specification before connecting your receiver to the wall outlet.

3.1 Connecting to TV & VCR**<Basic connection with a coax cable>**

1. Connect the satellite signal from the LNB to the LNB IN connector.
2. Connect the RCA connector at the back of the receiver to the RCA-in connector on your TV set.

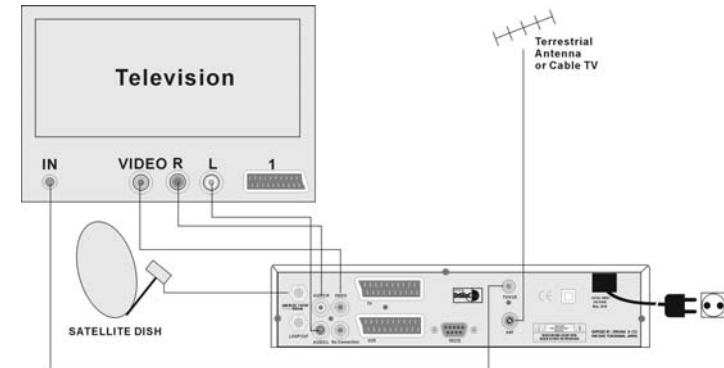


Figure 4 Basic connection with a coax cable

< Basic connection with a Scart cable >

1. Connect the satellite signal from the LNB to the LNB IN connector.
2. Connect the TV scart connector at the back of the receiver to the scart-in connector on your TV set.
3. Optional: connect an extra terrestrial or cable antenna to the ANT connect at the back of the receiver.

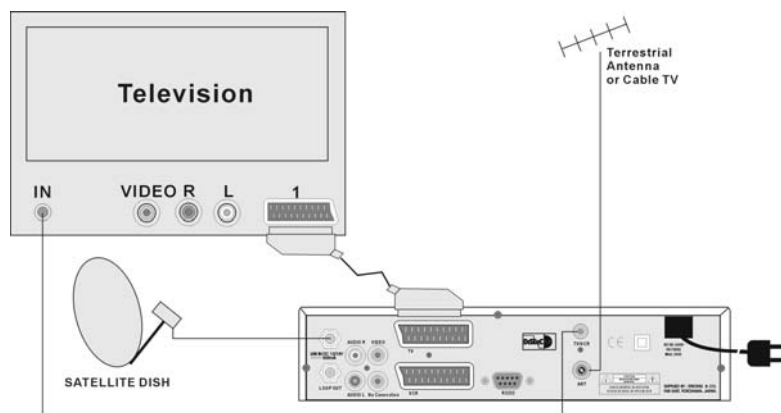


Figure 5. Basic connection with a Scart cable

<Advanced connection of the receiver to the TV set, VCR and Audio amplifier>

1. Connect the satellite signal from the LNB to the LNB IN connector.
2. Connect the TV scart connector at the back of the receiver to the scart-in connector on your TV set.
3. Connect the VCR scart connector at the back of the receiver to the scart-in connect on your VCR set.
4. Connect an extra terrestrial or cable antenna to the ANT connector at the back of the receiver.
5. Connect a coax cable to the TV/VCR connector at the back of the receiver.
Connect the other end of this coax cable to the coax-in connector of your VCR.
6. Connect the coax-out connector of your VCR to the video-in connector of your TV set with a coax cable.
7. Optional: Connect the audio left and right RCA-plugs(Red and White) on the back of your receiver to the left and right input of an Audio amplifier, so you can enjoy the digital quality of the sound that is produced by your receiver.

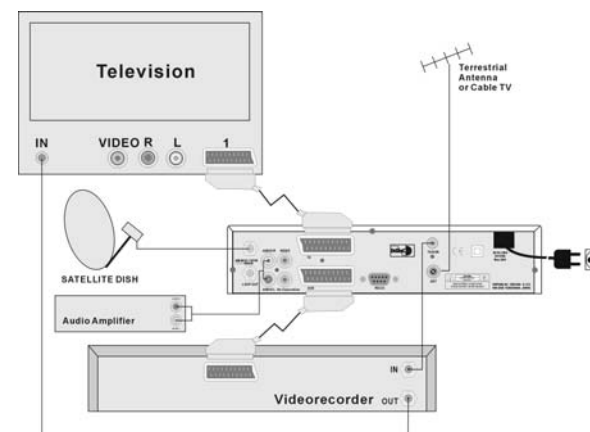


Figure 6. Advanced connection of the receiver to the TV set, VCR and Audio amplifier

3.2 Connecting to Dish

Aiming a satellite dish and LNB to the correct longitude and Azimuth (angle of elevation) of a satellite is a specialist job, and can best be done by an official dealer.

<Connecting a fixed satellite dish to your receiver>

Make your choice of which satellite you want to receive your signals from, and have your dealer aim your dish at the requested satellite. Connect a coax cable to your LNB and the other end directly to the LNB IN connector of your receiver.

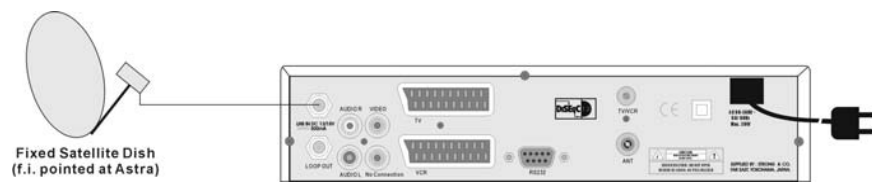


Figure 7. Connecting a fixed satellite dish to your receiver

<Connecting multiple fixed dishes to your receiver using a DiSEqC 1.0 switch>

If you want to watch program from more than satellites (For in instance from Astra and Hot Bird) it is advisable to use fixed dishes and a DiSEqC 1.0 switch. Have your Dealer aim the dishes at the requested satellites and connect the LNB's with coax cables to the IN connectors of the DiSEqC 1.0 switch. Connect the OUT connector of the DiSEqC 1.0 switch to the LNB IN connector at the back of your receiver.

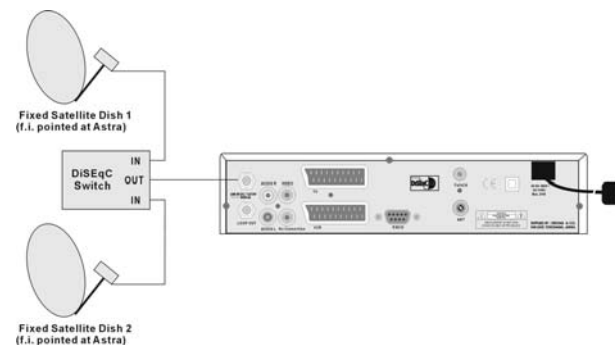


Figure 8. Connecting multiple fixed dishes to your receiver using a DiSEqC 1.0 switch

<Connecting a dish on a motorized positioner to your receiver>

Another possibility to watch program from multiple satellites is by mounting a dish to a motorized DiSEqC 1.2 positioner. Have your dealer mount the dish to the positioner, set the or react azimuth(angle of elevation) and let him set the center point for your positioner. Connect the LNB with a coax cable to the LNB IN connector of the positioner, and connect the OUT connector of the positioner to the LNB IN connector at the back of your receiver.

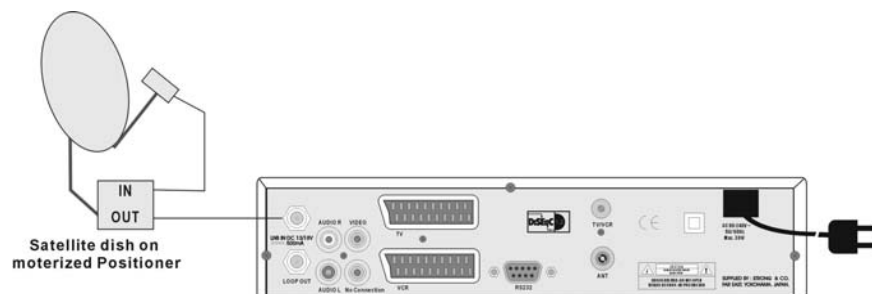


Figure 9. Connecting a dish on a motorized positioner to your receiver

Connecting to CI Module

3.3 Connecting to CI Module(CI Model Only)

Insert CI module into CI slot for watching TV program from Service Provider.



Warning

Do not plug in/out CI module when the receiver is powered on. But you can insert smart card to CI module with power on.

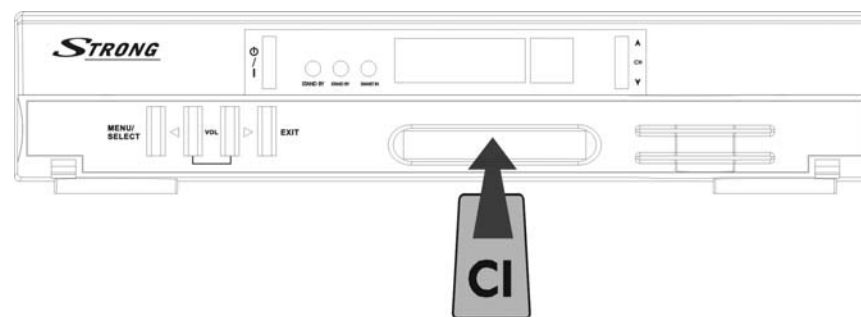


Figure 10. Connecting to CI Module

3.4 Connecting to SMART CARD

Insert Smart Card into Smart Card slot for watching TV program from Service Provider.

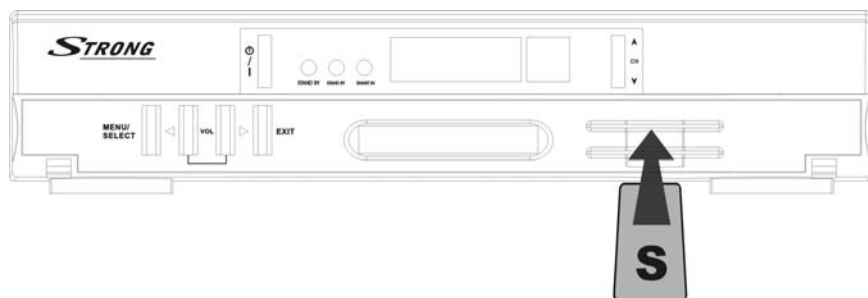


Figure 11. Connecting to SMART CARD Warning

4.1 Before Settings

<Starting up for the First Time>

1. Turn on your TV and receiver.
2. If it is first time using a receiver, you should set parameters for system configuration. After displaying the login screen, press the **MENU** button. The <screen1> will be appeared.



<screen 1>

<Menu Information>

The menu consists of main-menu and sub-menu, as you see in the <Screen 1>.

Main-menu has items and each main-item has its sub-menu items.



<screen 2>

4.2 Basic Settings

To install the receiver properly you have to perform Antenna Setup.

When you have finished the setup procedure, you can start watching TV or is turning to Radio.

1. Turn on your TV and receiver.
2. Press the **MENU** button to display the main menu. **<Screen 1>**
3. From the main-menu**<Screen 1>**, press the **OK** button on the Installation to display sub-menu. **<Screen 2>**

<DiSEqC 1.2 Setup>

If you use positioner Antenna, you can set East/West limit of your dish in the DiSEqC 1.2 SETUP menu at first. If you don't use positioner antenna, skip this section.

1. Press the **OK** button on the DiSEqC 1.2 Setup menu of Installation. And then, **<Screen 3>** will appear as displayed below.



<screen 3>



Tips

If you want setup the antenna, Press **BLUE** button in RCU. **<Screen3>**
 If you want edit manual scan, Press **GREEN** button in RCU. **<Screen 3>**
 If you want scan, Press **YELLOW** button in RCU. **<Screen 3>**

2. If you selected “on” item of ON/OFF mode, you can setup position.
 Move the cursor to the “Position” item and then**<Screen 4>** will appear as displayed below.



<screen 4>

After move the cursor to the “Position” field, you can move position by pressing ◀▶ button.



Tips

If you want auto position, Press **BLUE** button in RCU.
 If you want store position, Press **GREEN** button in RCU.
 If you want original pos. Press **YELLOW** button in RCU.

3. You can button in RED**<Screen 4>**, the position set-up window will display below. **<Screen 5>**



<screen 5>

4. Select Limit Mode

If you want setup the East Limit, Press **RED** button in RCU.
 if you want setup the West Limit, Press **BLUE** button in RCU.
 If you want enable Limit, Press **GREEN** button in RCU.
 If you want disable Limit, Press **YELLOW** button in RCU.

<Antenna Setup>

In order to setup your equipments(Satellite dish and LNB) you need to use the following menus. For the following setup you have to know the right frequency for your LNB(s).

1. Press the **OK** button in the Antenna Setup menu of Installation

<Screen 6>

The Antenna Setup window will be displayed as below <Screen 7>.



<screen 6>

2. In this Scan Antenna window, you can manipulate the current antenna lists or see the values of antenna configurations.



<screen 7>

Before start to scan antenna, you should set values of antenna configuration parameters.

3. If you want to scan with a fixed antenna, set the LNB and various switch values in <Screen 7> following to your physical antenna setting.



<screen 8>

If your antenna is installed well and the signal strength of the program is good, the strength bar will be shown as green.



If you want scan selected Satellite, Press **RED** button in RCU.
If you want scan all Satellite, Press **BLUE** button in RCU.

4. For editing antenna name, Press **GREEN** button in RCU.<Screen 7>

In the edit window, you can see one edit field and a keypad box, and you can move between edit field and keypad box easily with cursor key. Use **P-** key to re-input all characters, and **P+** to delete one character in the edit field. You can input characters from the keypad box.

Press **EXIT** to cancel edit, and press **OK** on the edit field or press **MENU** on the keypad box to confirm edit.



<screen 9>

5. If you want to scan each transponder or edit transponder list.
Press a hotkey buttons in RCU. **<Screen 7>**

**<screen 10>**

Press the **OK** button to scan the selected transponder.
You can change polarity, frequency and symbol rate of a transponder, and edit transponder-name by pressing **OK** at “TP Name” field.

Tips If you want delete TP, Press **BLUE** button in RCU.

**<screen 11>**

Tips If you want Insert TP, Press **RED** button in RCU. **<Screen 10>**
If you want Modify TP, Press **GREEN** button in RCU. **<Screen 10>**

<Manual Scan>

You can scan TP frequency and channel manually in the Manual Scan menu.

Press the **OK** button in the Manual Scan menu of Installation. **<screen 6>**

**<screen 12>**

First, select the satellite name in the “Satellite” item.
Select or enter the accurate value frequency, polarization, symbol rate.
Finally, Press the **OK** button to start channel scan.
Also you want to channel scan, Press the **◀▶** button and change to “channel scan” on the “scan mode” field. **<Screen 13>**

**<screen 13>**

Select or enter the accurate value Video PID, Audio PID, PCR PID.
Finally, press the **OK** button to start channel scan.

<System Upgrade>

If there is a new version of software available for your receiver, you are able to download it automatically via the satellite signal of Hot bird 13 East.

Press the **OK** button in the “system upgrade menu” of “system Set-up” <Screen 6>



<screen 14>

1. Please wait while your receiver is checking if your software version is the newest one available.

2. If you already have the newest version nothing will happen, and you can leave the menu.

When you need the newest version software, the receiver will automatically download that version from the satellite signal. After the download is finished, your screen will turn green for a few seconds while the receiver is re-booting.

When the screen is back to the normal, you can leave the menu.

**Tips**

Do not turn off your receiver while you are downloading new software. Be sure that your receiver is connected to the satellite signal of Hot bird 13East.

4.3 Viewing TV(or Radio)

In normal viewing mode(NO-MENU State), only the current TV program is displayed on the screen.

In this mode, you can change channel with the numeric, **UP/DOWN** or **P+/-** buttons, and almost all of other remote control buttons have their functions.

If you change channel, the banner bar will be displayed for few seconds as <Screen 15>.

The function of remote control buttons in Normal viewing mode state is as follows.

- **MUTE** : Audio mute(displayed on left-upper)
- **PAUSE** : Video Freeze
- **Digital TV/RADIO** : Shows you the list of stored TV/RADIO channels.
- **SAT** : You can select all satellites or a satellite to view.
- **FUNC** : If you press the **FUNC** button once, a banner is displayed on the upper part of the screen. If you press the button once again before the upper banner has disappeared, an extra banner is displayed at the bottom of your screen showing the details of the current channel. Shows the list of your current favorite channels.
- **Numeric Key(0-9)** : Changes channel by inputting channel number directly.
- **Up/Down** : Changes the current program to the next/previous.
- **Left/Right** : Adjust volume level Down and Up.
- **OK** : View the channel list will be displayed.
- **LANG** : Shows the list of available audio languages.
- **FAV** : Shows the list of current favorite program. You can manipulate the favorite program list in.
- **MENU** : You can enter the Main Menu.
- **EXIT** : No function in No-menu state



<screen 15>

<Viewing TV(or Radio) Program Menu>

Press the TV(or Radio) button. You can view the TV(or Radio) program list.



<screen 16>

<Program Guide>

If you want to view program guide information, Press **EPG** on viewing TV screen<Screen 15>.



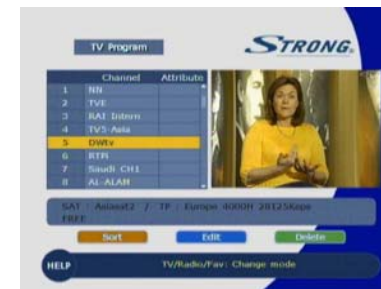
<screen 17>

Press **OK** to see the selected channel.

Use left or right key to show next/previous event on the program guide.

<Manipulating TV(or Radio) Program Menu>

You can change channel information in Channel Organize of the main menu.



<screen 18>

1. Channel Edit

Modify channel information in current list.



<screen 19>

- **Skip button(YELLOW)** : Skip the program when you change current channel.
- **Lock button(BLUE)** : Control watching the program.

2. Favorite Setup

Select the channel you like. If you want select to every group, Move the cursor to the channel you want to select press FAV1,2,3,4 button in. Then Press **EXIT** to save and finish.



<screen 20>



Tips

If you press **fav** button in Normal states, you can see the every fav group list. <Screen 15>

3. Channel Sort

You can sort channel orders of channel list.



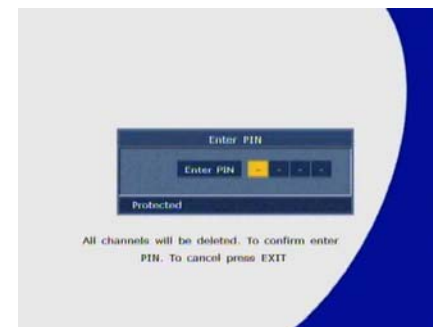
<screen 21>

This gives you the opportunity to sort your program list by channel name, free or coded channel and satellite.

4. Reset Channel

You want to delete Scan Channels.

Press the **OK** button in the Reset channel menu of Channel Organize.



<screen 22>

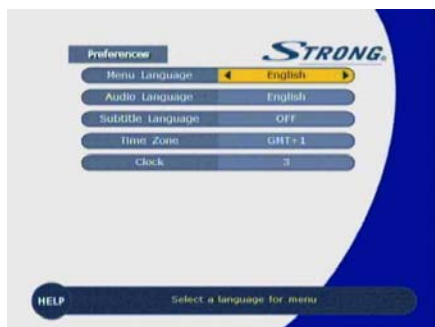
4.4 Other Settings

1. Turn on your TV and receiver.
2. Press the **MENU** button to display the main menu.
3. You can select *System Configuration* in the main menu<Screen 1>

The System Configuration menu has its 5 sub-menu.

- Preferences
- TV output Setup
- Timer Setup
- Parental Lock
- Calendar
- System Information

<Preferences>



<screen 23>

Menu Language : Select osd menu language for your convenience.

Audio Language : Select Audio language for your convenience.

Subtitle Language : Select Subtitle language for your convenience.

Time Zone : You can set your local offset time.

Banner Time-Out : You can set automatic banner off time.

<TV Output Setup>

You can set the various video output format.

Aspect : You can select TV type you have.

Screen Mode : You can select Pan Scan or Letter Box picture format.

RF TV Mode : You can select a video format of RF modulator.

UHF : You can select UHF.

RGB/CVBS : You can select RGB or CVBS color mode.

Transparency : You can regulate Transparency(0-10).

Brightness : You can regulate Brightness(0-10).

Contrast : You can regulate Contrast(0-10).

Saturation : You can regulate Saturation(0-10).



<screen 24>

<Timer Setup>

You can programming a power on/off interval timer by changing value in Timer mode field. you can set One/Daily/Weekly in Timer Cycle field and you can set the operation time with Time(and duration) field. Also you can select a channel to see when a receiver is power on with Channel an Channel Number field.



<screen 25>

<Parental Lock>

Changes the PIN(Personal Identification Number) which is used to control the access to the receiver and also individual channels.
If you press the **OK** button on Parental Lock menu item, the following window will appear, In the window, you are requested to enter Current PIN, New PIN and Retype PIN for confirmation.



<screen 26>

<Calendar>



<screen 27>

<System Information>

Shows the system information including the Firmware version and model name.



<screen 28>

<Factory Reset>

Resets the parameters of the receiver to the factory default setting.



Warning Factory Reset will erase all installed data, use this function carefully.

<Smart Card>

You can navigate the menu, which is provided by Smart Card module.
This information varies a lot depending on the service provider.



<screen 29>

A.1 Trouble Shooting

There may be various reasons for the abnormal operation of the receiver.

Check the receiver according to the procedures shown below.

If the receiver does not work properly after checking it, please contact the dealer.

Don't open the receiver cover. It may cause a dangerous situation.

Symptom	Cause	Remedy
The display on front panel does not light up	The power cord is not Plugged in.	Check that the power cord is plugged in to the wall outlet.
No picture or sound	Wrong connection of the Audio/Video output of the receiver to TV. Audio muting. TV power off.	Connect the Audio/Video output of the receiver to TV correctly. Press the MUTE button. Turn TV on.
No picture	The receiver can't receive the signal. Incorrect values of some tuner parameters. Wrong direction of the dish	Check the antenna cable, replace the cable, or connect the cable to the receiver tightly. Set the values of tuner parameters correctly in Installation menu. Check the signal strength with a spectrum analyzer and adjust your dish correctly.
The remote controller does not working	The batteries of the remote controller are not inserted or exhausted	Check whether the batteries are inserted correctly in your remote controller Check the batteries, and if exhausted replace the batteries of the remote controller

A.2 Specifications

1. Conditional Access Interface (CI Model Only)

PCMCIA	2 Slot(type I or type II) DVB Common Interface Standard (Viaccess, Nagra Vision, Conax, Cryptoworks, N)
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2. Smart card

SMART CARD	1slot ISO 7816, GSM11.11 and EMV(payment systems) compatibility
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3. Tuner & Channel

Input Connector	F-type, IEC169-24 Female
Frequency Range	950MHz to 2150MHz
Input Impedance	75Ω unbalanced
Signal Level	-25 to -65 dBm
IF frequency	480MHz
IF Bandwidth	55MHz
LNB Power	Vertical : +13V Horizontal : +18V Current : Max, 500mA
Polarization	13V/18V
22kHz Tone	Frequency:22kHz±4kHz Amplitude:0.6V±0.2V
DiSEqC Control	Version1.0 or 1.2 Compatible
Demodulation	QPSK
Input Symbol Rate	2-45Ms/s
FEC Decoder	Convolution Code Rate 1/2, 2/3, 3/4, 5/6 and 7/8 with Constraint Length K=7

4. System & Memory

Main Processor	SC2005(LSI-LOGIC)
Flash Memory	1 Mbyte(up to 8Mbyte)
Processor SDRAM	8 Mbyte(up to 16Mbyte)
A/V decoder SDRAM	2 Mbyte(up to 4Mbyte)
EEPROM	8 Kbyte
Channel Memory	Digital Channel : 3000
Multi-Satellite	Up to 64
Multi-Language Menu	English, French, German, Russian

5. MPEG Transport Stream & A/V Decoding

Transport Stream	MPEG-2 ISO/IEC 13818 Transport Stream Specification
Profile Level	MPEG-2 MP@ML
Input Rate	Max 90Mbit/s
Aspect Ratio	4:3, 16:9
Frame Rate	25Hz for PAL, 30Hz for NTSC
Teletext	Through VBI / OSD
Audio Decoding	MPEG I & II , 3x2 Channel PCM
Audio Mode	Single channel/Dual channel Joint Stereo/Stereo
Frequency Response	20kHz~20kHz, <+/-2dB 60kHz~18kHz <+/-0.5dB
Sampling Rate	32, 44.1, 48kHz

Specifications

STRONG

6. Front panel

Display	4-digit 7-segment Display
Function keys	Power, Left/Right, Up/Down, Menu/Exit

7. A/V & Data In/Out

TV Scart Output	RGB, CVBS, L, R Output with Volume Control
VCR Scart Output	CVBS, L, R Input CVBS, L, R Output : Option
RCA Output	CVBS, L, R Output(Yellow, White, Red Jack) with Volume Control
Data Interface	RS-232, Bit Rate:115200baud Connector: 9-Pin D-Sub Male type

8. RF-Modulator

RF-Connector	75Ω IEC169-2, Male/Female
Frequency	470MHz to 860MHz
Output Channel	CH 21-69 for the Demodulator
TV Standard	PAL B/G/I/D/K Selectable by Menu Setting
Audio Output	Mono with Volume Control
Preset Channel	CH 40, Software changeable by Menu screen

Specifications

STRONG

9. Power Supply

Input Voltage	AC 90~240V, 50Hz~60Hz
Type	PWM Regulator
Power Consumption	Max. 30W
Stand-by Power	<= 6.5W
Protection	Separate Internal Fuse The input shall have the lightning protection

10. Physical Specification

Size(WxHxD)	280 x 55 x 235mm Excluding the foot. Foot height is 6mm
Weight	2.0kg

11. Environmental Condition

Operating Temperature	0~40℃
Storage Temperature	-30℃ ~ 80℃
Operating Humidity Range	10 ~ 85% RH, Non-condensing
Storage Humidity Range	5 ~ 90% RH, Non-condensing

A.3 Glossary of Terms

C band

3.7 ~ 4.2 GHz Frequency.

DiSEqC

Digital Satellite Equipment Control.

Ku band

11 ~ 18GHz Frequency.

LNB(Low-Noise Block converter)

The LNB is an electronic unit mounted on the satellite dish. It receives the signals reflected by the dish and converts them to signals that can be used by Satellite receiver.

PID

Package Identifier.

PIN Code

Personal Identification Number. A four-digit code that is used for locking/unlocking. e.g. with the parental control feature.

Polarization

Polarization allows several programs to be fitted into the same frequency band. The signals from a satellite are transmitted either with linear(vertical or horizontal) polarization or circular(right or left) polarization.

RS232

Serial data port.